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## PUBLISHED INTERNATIONAL APPLICATION

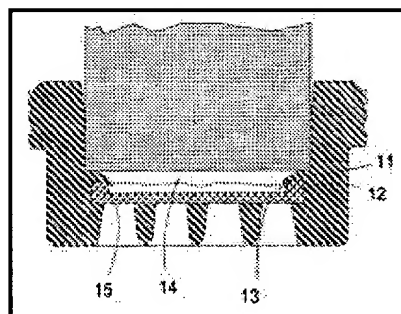
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 (54) **MECHANICAL INTERLOCK FOR FILTERS**  
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## Abstract

The present invention provides a mechanical lock for securing one or more filters within a filtration device and methods for producing the mechanical lock. The use of an interference fit punch causes a portion of the inner surface of the wall to be skived and rolled along the wall until it reaches the desired location where it forms a mechanical crimp to retain the one or more filters within the device. In one embodiment, the inner surface has an inwardly taper. In the other, it has straight walls or outwardly tapered walls. The use of a gasket such as an O-ring on top of the filter before the wall is skived provides a



<b>L Number</b>	<b>Hits</b>	<b>Search Text</b>	<b>DB</b>	<b>Time stamp</b>
-	192	skiving and heating and (plastic polymer) and well	USPAT; US-PGPUB	2002/05/06 07:53
-	6	skiving and heating and (plastic polymer) and interlock	USPAT; US-PGPUB	2002/05/03 15:38
-	225	(210/495).CCLS.	USPAT; US-PGPUB	2002/05/03 16:00
-	825	(210/497.01).CCLS.	USPAT; US-PGPUB	2002/05/03 16:00
-	1	wo-200176717-\$.did.	EPO; JPO; DERWENT	2002/05/04 18:40
-	19	210/455	EPO; JPO; DERWENT	2002/05/04 18:40
-	5	210/460	EPO; JPO; DERWENT	2002/05/04 18:40
-	79	210/435	EPO; JPO; DERWENT	2002/05/04 18:41
-	2	210/477	EPO; JPO; DERWENT	2002/05/04 18:41
-	547	(210/455).CCLS.	USPAT; US-PGPUB	2002/05/04 18:41
-	366	(210/435).CCLS.	USPAT; US-PGPUB	2002/05/04 20:57
-	16	("3448041"   "3593854"   "3663374"   "3791933"   "4102785"   "4116845"   "4246107"   "4256693"   "4283289"   "4330410"   "4416777"   "4477575"   "4701267"   "4753776"   "4952516"   "4985153").PN.	USPAT	2002/05/04 19:09
-	227	(210/459).CCLS.	USPAT; US-PGPUB	2002/05/04 19:22
-	3	("2800977"   "3749250"   "5100444").PN.	USPAT	2002/05/04 19:24
-	2	5284586.URPN.	USPAT	2002/05/04 19:25
-	734	(210/499).CCLS.	USPAT; US-PGPUB	2002/05/04 19:41
-	262	(210/482).CCLS.	USPAT; US-PGPUB	2002/05/04 20:14
-	309	(210/483).CCLS.	USPAT; US-PGPUB	2002/05/04 20:24
-	437	(210/477).CCLS.	USPAT; US-PGPUB	2002/05/04 20:48
-	626	(210/460).CCLS.	USPAT; US-PGPUB	2002/05/04 20:57
-	352	(156/303.1).CCLS.	USPAT; US-PGPUB	2002/05/06 07:57
-	19	((156/303.1).CCLS.) and (punch punching skiving)	USPAT; US-PGPUB	2002/05/06 07:57
-	1347	(156/293).CCLS.	USPAT; US-PGPUB	2002/05/06 07:58

-	64	((156/293).CCLS.) and (punch punching skiving)	USPAT; US-PGPUB	2002/05/06 07:58
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